

(f) a nucleotide sequence comprising at least 80% identity to the sequence set forth in SEQ ID NO: 7;

(g) a nucleotide sequence comprising at least 80% identity to the sequence set forth in SEQ ID NO: 8;

(h) a nucleotide sequence that is complementary to a nucleotide sequence selected from the group consisting of the nucleotide sequences set forth in (a)-(g); and

(i) a nucleotide sequence that hybridizes under stringent conditions to at least one nucleotide sequence selected from the group consisting of the nucleotide sequences set forth in (a) and (b) and complementary sequences thereof, said stringent conditions comprising hybridization at 37°C in 50% formamide, 1 M NaCl, and 1% SDS and a wash in 0.1X SSC at 60°C;

wherein said nucleotide molecule encodes a P-glycoprotein that controls plant growth or said nucleotide molecule is complementary to a nucleotide sequence that encodes said P-glycoprotein.

4. (Twice Amended) A transformed plant having stably incorporated into its genome a nucleotide molecule operably linked to a promoter that drives expression in a plant cell, wherein said nucleotide molecule comprises a nucleotide sequence selected from the group consisting of:

(a) a nucleotide sequence set forth in SEQ ID NO: 7;

(b) a nucleotide sequence set forth in SEQ ID NO: 8;

(c) a nucleotide sequence consisting of at least 19 contiguous nucleotides of the nucleotide sequence set forth in (b);

(d) a nucleotide sequence encoding the amino acid sequence set forth in SEQ ID NO: 9;

(e) a nucleotide sequence encoding at least 70 contiguous amino acids of the amino acid sequence set forth in SEQ ID NO: 9;

(f) a nucleotide sequence comprising at least 80% identity to the sequence set forth in SEQ ID NO: 7;

(g) a nucleotide sequence comprising at least 80% identity to the sequence set forth in SEQ ID NO: 8;

(h) a nucleotide sequence that is complementary to a nucleotide sequence selected from the group consisting of the nucleotide sequences set forth in (a)-(g); and

B²
(i) a nucleotide sequence that hybridizes under stringent conditions to at least one nucleotide sequence selected from the group consisting of the nucleotide sequences set forth in (a) and (b) and complementary sequences thereof, said stringent conditions comprising hybridization at 37°C in 50% formamide, 1 M NaCl, and 1% SDS and a wash in 0.1X SSC at 60°C;

wherein said nucleotide molecule encodes a P-glycoprotein that controls plant growth or said nucleotide molecule is complementary to a nucleotide sequence that encodes said P-glycoprotein.

18. (Twice Amended) A method for modifying the growth of a plant, said method comprising a plant with a nucleotide molecule encoding a P-glycoprotein wherein said P-glycoprotein functions to control growth of a plant, said nucleotide molecule operably linked to a promoter that drives expression of said nucleotide molecule in said plant, said nucleotide molecule comprises a nucleotide sequence selected from the group consisting of:

- B³
- (a) a nucleotide sequence set forth in SEQ ID NO: 7;
 - (b) a nucleotide sequence set forth in SEQ ID NO: 8;
 - (c) a nucleotide sequence consisting of at least 19 contiguous nucleotides of the nucleotide sequence set forth in (b);
 - (d) a nucleotide sequence encoding the amino acid sequence set forth in SEQ ID NO: 9;
 - (e) a nucleotide sequence encoding at least 70 contiguous amino acids of the amino acid sequence set forth in SEQ ID NO: 9;
 - (f) a nucleotide sequence comprising at least 80% identity to the sequence set forth in SEQ ID NO: 7;

(g) a nucleotide sequence comprising at least 80% identity to the sequence set forth in SEQ ID NO: 8;

(h) a nucleotide sequence that is complementary to the nucleotide sequence of any one of (a)-(g); and

(i) a nucleotide sequence that hybridizes under stringent conditions to at least one nucleotide sequence selected from the group consisting of the nucleotide sequences set forth in (a) and (b) and complementary sequences thereof, said stringent conditions comprising hybridization at 37°C in 50% formamide, 1 M NaCl, and 1% SDS and a wash in 0.1X SSC at 60°C;

wherein the growth of said transformed plant is modified.

24. (Twice Amended) A transformed plant cell having stably incorporated into its genome a nucleotide molecule operably linked to a promoter that drives expression in a plant cell, wherein said nucleotide molecule comprises a nucleotide sequence selected from the group consisting of:

(a) a nucleotide sequence set forth in SEQ ID NO: 7;
(b) a nucleotide sequence set forth in SEQ ID NO: 8;
(c) a nucleotide sequence consisting of at least 19 contiguous nucleotides of the nucleotide sequence set forth in (b);

(d) a nucleotide sequence encoding the amino acid sequence set forth in SEQ ID NO: 9;

(e) a nucleotide sequence encoding at least 70 contiguous amino acids of the amino acid sequence set forth in SEQ ID NO: 9;

(f) a nucleotide sequence comprising at least 80% identity to the sequence set forth in SEQ ID NO: 7;

(g) a nucleotide sequence comprising at least 80% identity to the sequence set forth in SEQ ID NO: 8;

(h) a nucleotide sequence that is complementary to a nucleotide sequence selected from the group consisting of the nucleotide sequences set forth in (a)-(g); and

(i) a nucleotide sequence that hybridizes under stringent conditions to at least one nucleotide sequence selected from the group consisting of the nucleotide sequences set forth in (a) and (b) and complementary sequences thereof, said stringent conditions comprising hybridization at 37°C in 50% formamide, 1 M NaCl, and 1% SDS and a wash in 0.1X SSC at 60°C;

wherein said nucleotide molecule encodes a P-glycoprotein that controls plant growth or said nucleotide molecule is complementary to a nucleotide sequence that encodes said P-glycoprotein.

Please add the following new claims:

33. (New) An isolated nucleotide molecule comprising a nucleotide sequence having at least 85% nucleotide sequence identity to at least one nucleotide sequence selected from the group consisting of the nucleotide sequence set forth in SEQ ID NO: 7 and the nucleotide sequence set forth in SEQ ID NO: 8, wherein said nucleotide molecule encodes a P-glycoprotein that controls plant growth or said nucleotide molecule is complementary to a nucleotide sequence that encodes said P-glycoprotein.

34. (New) The nucleotide molecule of claim 33, wherein said nucleotide sequence identity is at least 90%.

35. (New) The nucleotide molecule of claim 33, wherein said nucleotide sequence identity is at least 95%.

36. (New) A transformed plant having stably incorporated into its genome a nucleotide molecule operably linked to a promoter that drives expression in a plant cell, wherein said

nucleotide molecule comprises a nucleotide sequence having at least 85% nucleotide sequence identity to at least one nucleotide sequence selected from the group consisting of the nucleotide sequence set forth in SEQ ID NO: 7 and the nucleotide sequence set forth in SEQ ID NO: 8, wherein said nucleotide molecule encodes a P-glycoprotein that controls plant growth or said nucleotide molecule is complementary to a nucleotide sequence that encodes said P-glycoprotein.

37. (New) The plant of claim 36, wherein said nucleotide sequence identity is at least 90%.

38. (New) The plant of claim 36, wherein said nucleotide sequence identity is at least 95%.

39. (New) Transformed seed of the plant of claim 36.

40. (New) Transformed seed of the plant of claim 37.

41. (New) Transformed seed of the plant of claim 38.